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# THE

# Canadian Contract Record

A Weekly Journal of Advance Information and Public Works.

Vol. 1.

Toronto, Canada, Feb. 22, 1890.

No. 2

# THE CANADIAN CONTRACT RECORD,

A Weekly Journal of Advance Information and Public Works,

PUBLISHED EVERY SATURDAY

As an Intermediate Edition of the Canadian Architect and Builder,

Subscription Price of "Canadian Architect and Builder" (including "Canadian Contract Record") \$2 per annum, payable in advance.

## C. H. MORTIMER, Publisher.

14 KING ST. WEST,

TORONTO, CANADA.

The purposes of this journal are to supply Contractors, Manufacturers and Dealers throughout Canada, with advance information regarding contracts open to tender, and to furnish Architects, Municipal and other Corporations with a direct medium of communication with Contractors

Information from any part of the Dominion regarding contracts open to tender will be gratefully received.

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders.

#### USEFUL HINTS.

Hard finish is cheaper than paint for woodwork, looks better and lasts longer.

The weight of a crowd of men closely packed is about 84 pounds per superficial foot.

VARNISH FOR UNPAINTED WORK.—Quarter of a pine of wood naphtha, quarter of a pint spirits of wine, four ounces benzom, four ounces oranges shellac; dissolve all together.

The cost of houses may be approximated by rating small ones at twelve to twenty cents per cubic foot for ordinary plans, and fifteen to twenty-five cents where there is an extraordinary amount of plumbing, etc., and the site unfavorable. Thus a house 30 x 30 x 25 containing 22,500 cubic feet, would range from \$2,700 if of frame in a favorable locality and not too elaborate to \$5,525 if of stone and in an expensive place and "liberally" constructed.

The Flow of Steam.—The velocity at which steam flows in pipes and through apertures is governed by the same law as the flow of liquids, if the gravity is considered. It is more convenient, however, to compute the flow from temperature, as follows:  $V=60\sqrt{T+460}$ , or the velocity per second equals 60 times the square root of the degree of temperature with 460 added. The flow is nearly uniform at different pressures, and the following table will answer for nearly all cases without further calculation:

Pressure in lbs. per in., 25 30 45 60 75 100 150 Velocity in ft. per sec'd, 863 867 877 885 891 898 908

Mortises where in the side of a beam, should be cut as near as possible in the centre of the depth, where the neutral axis is, thus weakening the beam to the least extent. But tenons, to have the greatest strength, should be at or near the under side

of the joint. To reconcile these two, give the tenon a depth of 1% and a length of 36 the depth of the cross beam, and make the level side of the cross beam into a shoulder, let into the main beam one-half the length of the tenon.

IMITATION EBONY.—Wash any compact wood with a boiling decoction of logwood three or four times, allowing it to dry between each application. Then wash it with a solution of acetate of iron, which is made by dissolving iron fillings in vinegar. This stain is very black, and penetrates to a considerable depth into the wood, so that ordinary scratching or chipping does not show the original color.

INTERESTING ENGINEERING FEAT. The method of constructing the foundations of the gitar drawbridge over the Thames at New London is of exceptional interest. Timber curbs were constructed, which were sunk eighty feet into the bed of the river, the bottom of which was soft mind for this depth. The mind inside the curb was excavated, and the piles driven into the solid ground then obtained. The heads of these piles were then bound together with concrete, on which the masonry of the pier was finally erected.

STAINED FLOORS -- The hue to be given in staining a floor greatly depends on the condition of the boards. If they are smooth or fine grained, a satinwood or pitch stain is appropriate, but if a floor is old and somewhat rough, it may be well to stain it with dark oak or mahogany. After the stain is applied with the brush, it is to be wiped dry with a soft cloth. For the ultra-fashionable floor of a pale shade of oak sized and varnished, raw sienna powder is mixed with water. Although at first of a painfully glaring yellow, sizing tones down the strong color surprisingly and the polish brings out the true oak shade to perfection. A coating of shellac varnish to parquet floors has the fault of becoming brittle as soon as the spirit used in dissolving it has evaporated. The objection to haseed oil is its darkening effect on the wood, besides rendering in time different kinds of wood much of the same color. White wax so prepared as to be free from stickiness makes one of the best finishes. Once the floor has been properly filled and finished, it keep fresh and bright, and when a little dull only needs to be rubbed over with a weighted brush or cloth.

FIRE PROOFING WOOD-WORK. The Western Manufacturers' Mutual Insurance Company have issued the following suggestions relative to the construction of fire-proofing wood-work. A door of the right construction to resist fire, should be made of pine, and should be of two or more thicknesses of matched boards nailed across each other, either at right langles or at 45% If the doorway be more than 7 by 4 feet, it would be better to use three thicknesses of the same stuff; in other words, the door should be of a thickness, proportioned to its area. Such a door should always be made to shut into a rabbit, or flush with the wall when practicable; or, if it is a sliding door, then it should be made to shut into or behind a jamb, which would press it up against the wall. Both sides of the door and its jambs, if of wood, should then be sheathed with tin, the plates being locked at joints and securely nailed under the locking with nails at least one inch long. No air-spaces should be left in a door, by paneling or otherwise, as the door will resist best that has the most solid material in it. In most places it is much better to fit the door upon inclined metal sliders than upon hinges. This kind of door may be fitted with automatic appliances, so that it will close of itself when subjected to the heat of a fire, but these appliances do not interfere with the ordinary methods of opening and shutting the door - they only constitute a safeguard against negligence. The construction of shutters varies from that of doors only in the use of thinner wood.

• •



#### CONTRACTS OPEN.

BROCKVILLE, ONT. A new public school building is to be erected.

MIDDLESUX, ONL -- The Presbyterians will erect a new church soon

PERTH, ONL - St. Andrews congregation will build a new church on a new site

ALMONT), ON ( ... Vinew church will be built in the spring by the Presbyterians.

HAYSTILLE, ONE The congregation of Christ Church contemplate improvements.

SMITH'S FALLS, ON - V new post office and customs buildings are expected for this town

VARMOUTH, N/8.—It is proposed to expend \$50,000 m street and sidewalk improvement

LACHINE, QUE - A new Roman Catholic Presbytery is to be erected in the spring. - Mso a new post office to cost \$12,000.

TRENTON ONE -The Government has been asked to make needed improvements to the post office building in this town.

DIGBY, N. S.—The Dominion Government has been asked to make a grant for the construction of a new pier at this harbour

HALIFAX, N. S.—The Board of Health will apply to the Legislature for authority to borrow \$400,000 to construct additional sewers

PARIS, ONL.—The town council is collecting information which it is proposed to use in providing the town with a system of pure water supply

OTTAWA, ONT.—Permission has been granted by Parliament to the Pontiac and Pacific Junction Railway to construct a bridge over the Ottawa tiver.

COLLINGWOOD, ONL.-The Government will cause a survey to be made of the harbor, with a view to making the improvements necessary to put it in good condition.

New GLASGOW, N. S.—The Board of Trade have decided to petition the Government for \$100,000, for the purpose of deepening the river between New Glasgow and Pictou.

BOTHWELL, ONT.—Tenders will be received by I. E. Vogler until March 5th, for the erection of an iron bridge with stone abutments, across the river Thames on the county line between Kent, Elgin and Middlesex.

PORT STANLEY, —Deputations representing this town and the cities of London and St. Thomas, will urge the Government to improve Port Stanley harbor — A number of cottages are to be built on the beach here this spring.

GUELPH, ONT.—New county buildings are needed. The suggestion is made that they should be erected in a more central locality—The city council is considering how it may provide funds for the construction of a sewage system.

WEST TORONTO JUNCTION.—The congregation of Annette street Methodist church will erect a new edifice with a seating capacity of 1,200.—This town is seeking authority from the Legislature to construct subways or overhead bridges.

LONDON, ONT.—The Ontario Government and the C. P. R. are asked to share with the city the cost of construction of a trunk sewer.—The chief of the fire department recommends that the present central fire station be torn down and a new one erected —Mr. Anderson will probably build two more stores east of the McCormack block.

BRANTFORD, ONT.—The school authorities are collecting information in Toronto and elsewhere to be utilized in the erection of a new school to take the place of the Central School recently damaged by fire.—By-laws will be introduced providing for the construction of sewage and fire alarm systems. The proposed cost of the former is placed at \$30,000.

KINGSTON, ONT.—A syndicate is looking for a suitable site on which to erect steel work. The Fire and Light Committee of the city council intend to erect an engine house in the upper part of the city.—The trustees of the general hospital are considering the question of erecting a new wing to that institution.—A site has been purchased for a new Anghean church in Wilhamsville.

HAMILTON, ONT,—Mr. James Balfour, architect, has prepared plans for two new school buildings, the estimated cost of which will be \$22,000 and \$32,000 respectively. The building committee of the school board have the plans under consideration.—Plans are being prepared for a factory building 434 x 100 feet for the Sawyer-Massey Co.—The Inspector of Prisons recommends the erection of an addition to the gaol.—Tenders will be asked by the city council for the construction of a stone or granolithic pavement surrounding the new city hall—The city will grant a bonus of \$275,000 to aid the construction of the Toronto, Hamilton and Buffalo Railway. The proviso is made that the railway company shall construct a tunnel from Bay to James St., the cost of which is estimated at \$125,000

VICTORIA, B. C.—The Pandora stre t Methodist church will erect an edifice costing not less than \$60,000—St. Andrew's (R. C.) congregation

will creek a handsome cathedral costing in the neighbothood of \$75,000.—
Three and four-storey brick blocks will be put up at the corner of Covernment and Broughlon, streets, at the corner of Government and Broughlon, streets, at the corner of Douglas and New streets, at the corner of Juhnson and Government creeks, at the corner of Yates and Waddington Alley.

Similar best logs will replace primitive structures on Government, Yates.

Fort, Johnson and Douglas streets.—It is believed that the Canadian Western Hotel Co. will begin the construction of a hotel costing \$150,000.—

The proprietors of the Drand have stated their intention to creek a seven storey addition to their hotel, facing on View street.

MONTREAL, Que. - The Carmelites have purchased a piece of land on Rachel street between Dufferin and Amherst, upon which they intend building a convent next spring.—The City Surveyor's estimate of expenditures by the Roads Department the present year includes the following Squares, \$10,500, roads, \$140,901, paving repairs, \$2,000, sidewalks (wood) \$57,000, sewer repairs \$10,000, catch basins, \$41,000, private drain connections, \$1,800, river roads, \$1,500, names and numbers of streets, \$2,000 Of the \$140,901 put down for roads, only one-fifth will be expended this year and the balance in the four succeeding years. - The estimates of the Water Committee contain \$23,412 for distribution pipes. -Lenders are asked by the City Clerk until noon of Saturday, 1st March, for the erection of a public weigh house -It has been decided to build the new Roman Catholic church of St. Louis at the corner of Roy and Laval streets -There is a rumor, that the Semmary, intend, erecting a large, hall for the entertainment of young men, on the corner of St. Denis and St. Catherine streets

TORONTO, ONT . The city registry office does not afford sufficient accommodation. The election of a new one is being urged. -The city will contribute \$30,000 towards the cost of erecting a bridge across the Rosedale Ravine at the head of Sherbourne St. - A new police station will be erected to take the place of the one at St. Andrew's market.-The Provincial estimates for the present year include the sum of \$91.916.59 for repairs to public buildings, and \$18.500 for repairs to public works.-University college will at once be rebuilt at a cost of \$250,000. The Ontario Legislature will furnish \$160,000 of this amount, the balance coming from the insurances on the burned building.—The Dominion Piano Co., of Bowmanville, are looking for a suitable site in Toronto on which to erect a large factory -- Messis. Peter McIntyre and W. G. Storm, propose to erect on the Island a summer hotel capable of accommodating 500 guests, if the necessary arrangements can be made with the city council.-The Park Superintendent says 75,000 yards of dredging will be required at Island Park the coming season -The construction of new wharves at the Island has been decided upon, -- The following building permits have been granted since last issue. Toronto Real Estate & Investment Co., add. storey and alterations s. w. cor. Church and Colborne Sts., cost \$3,500; Mr Curran, pr. s. d. 2 storey and attic bk. fronted dwellings, St. Patrick St., near Spadina Ave., cost \$1,800.

#### CONTRACTS AWARDED.

WINNIPEG, MAN.—The contract for the erection of the W. E. Sauford Company's new warehouse at the corner of Princess and Binnatyne streets, Winnipeg has been awarded to Bruce & Madden. The amount of the tender is between twenty and twenty-five thou-and dollars.

TORONTO, ONT—Contracts were awarded a week ago by the city as follows. Block priving—Hamilton street, \$1.828; Gordon avenue, \$2,249, and Brighton avenue, \$838, to Wm. Cassels. Peter street, \$1,890, John street, \$4,050, Morris street, \$1,249, and Birch avenue, \$2,460, to John McCracken. Bridge street, \$1,502, to H. A. Brown, Mackenzie Avenue, \$742, to A. W. Godson. Sewers—Radenhurst street, \$875, to J. H. McKnight. Withrow avenue, \$2,373, Smith street, \$1,151; and Defries street, \$432, to John Tarley. Sand—To all localities east of Yonge street at \$1.03 per ton, to J. H. McKnight, and west of Yonge street at \$1 per ton, to Ardagh & Leonard.

#### BIDS.

MONTREM. QUE.—The following bids have been received by the Water Committee for the supply of cast iron pipe. Gloucester Iron Works, Philadelphia, \$32.91 per ton, B. J. Coghlin, \$43: J. X. Perrault, \$41: T. T. Turnbull, \$40.48: Canada Pipe Company, \$40: Londonderry Iron Company, \$56.45. D. Y. Stewart & Co., Glasgow, Scotland, \$43. J. Bellhouse, \$46.20. A tender was also received from the Wood Company, of Philadelphia, but as it was not in accordance with the specifications, it was thrown out. The awarding of the contract was deferred until the next meeting, in order that the Gloucester Iron Works could be communicated with in regard to the terms of their contract. The following firms tendered for the supply of five copper 24-inch water valves.—R. H. Buchanan & Co., \$268 each. John MacDougall, \$255.60, Miller Bros. & Mitchell, \$325. Darling & Bros. \$315. Fagle Foundry, \$295. E. Chanteloup, \$235. Gullbord & Felton, \$450. The tender was unanimously awarded Mr. Chanteloup

The death is recorded of Mr. John Philpot, one of the oldest contractors and builders of the city of St. Themas. Ont., at the advanced age of 81, years.

#### BUSINESS TROUBLESS.

HE following assignments of contractors are reported George H. Maltchetts, 5 Parkdale Avenue, Toronto; Chas. O. Lamontague, contractor for the Lachine Water Works, Montreal.

#### LEGAL DECISIONS.

N the case of Langdon et al. vs. Northfield, lately decided by the Supreme Court of Minnesota, it appeared that the contract sued on (by which the defendants agreed to construct or grade a portion of a railway, 85 per cent, of the contract price to be paid by plaintiffs monthly on the monthly estimates of the engineer, the remaining 15 per cent to be retained until the final estimate of the work was completed) contained a provision that if the defendants neglected or refused, after notice, to proceed with the work as fast as, in the opinion of the plaintiffs or the chief engineer of the railway company, was necessary for its completion within a time specified in the contract, then the plaintiffs might "employ other parties to execute any part of the work and charge the cost of the same to the defendants, to be deducted out of the retained percentage or out of any payment that shall become due on any former estimate or that may become due on any subsequent estimate." The court held that the defendants' liability to reimburse the plaintiffs for the cost

of executing a part of the work was not limited to the amount due defendants on the contract retained in the hands of the

An action was recently brought in the Toronto courts by John Cowdy against his employer, a contractor named Hamblyn, claiming \$3,000 for injuries sustained owing to the fall of a scaffold. The jury awarded plaintiff \$300.

#### TESTING THE HARDNESS OF WATER.

RAPID method for ascertaining the amount of lime and sodium carbonate necessary to soften a hard water has been devised by M. L. Vignon. It gives satisfactory results in waters which do not contain a large quantity of magnesium chloride or sulphate. He employs a standard solution of lime for titrating the water, using an alcoholic solution of phenolphthalem as indicator. The volume of lime water added is a measure of the lime required to combine with the free carbonic acid present in the water, and that necessary to convert the hydrogen calcium carbonate and hydrogen magnesium carbon ate into insoluble salts. On filtering off the precipitate formed in this way from 100 c. c. of the water under examination, the filtrate is titrated with a solution of sodium carbonate containing i gram per litre, phenol-phthalem again being used to indicate the end of the reaction.—Industries.

A glue which is proof against moisture, may be made by dissolving 16 ounces of glue in 3 pints of skim milk. If stronger glue is wanted, add powdered lime.

Complaint is sometimes made of the thick skins and dry, hard conditions in general of old lead. A point worth remembering by the "old league" fanatics, is to always open a lead keg from the bottom. The lead will be found to be much smoother and softer than on the top.

Please mention the CANADIAN CONTRACT RECORD when corresponding with advertisers.

## UPPER CANADA COLLEGE.

TENDERS.

SEALED TENDERS will be received by the undersigned until Wednesday, February 26th, 1890, at 12 o'clock noon, for the plumbing and gasfitting of Upper Canada College. The envelopes to be marked "Tender for Plumbing and Gasfitting," and to be accompanied by an accepted cheque for ten per cent. of the amount as a guarantee of good faith. Plans and specifications can be seen at the Education Department.

GEO. W. ROSS, Minister of Education. Education Dep't (Ont.), Toronto, 18th Feb., 1890.

#### TO BUILDERS.

TENDERS will be received at the office of the undersigned, where plans and specifications may be seen, on or before

# 12 o'Clock Noon of the 26th Instant,

For the several works required in the erection of a dwelling in this city.

JAMES BALFOUR, Architect, James and Main Sts., Hamilton.

SEALED TENDERS will be received at the office of the undersigned, on or before

# THURSDAY, 27th Inst.,

For the following work and materials for the City of London for the ensuing year:

LUMBER FOR REPAIRS, NAILS, STONE FOR PAVING, CEDAR BLOCKS FOR PAVING,

GRAVEL, PLANK WALKS, SWEEPING. BLOCK PAVEMENT, ETC.

Specifications and forms of tender at the aforesaid

The lowest or any tender not necessarily accepted. WM. JONES, Ch. No. 2 Com. THOS. H. TRACY, City Engineer.

## TO CONTRACTORS.

TENDERS

Will be received at the office of the undersigned until noon on Friday, February 28th, for the several works required in the erection of a building for the Porset school. Toronto.

No tender necessarily accepted.

nder necessarily accepted.
STRICKLAND & SYMONS, Architects,
18 Toronto St.



#### TO CARPENTERS AND BUILDERS.

TENDERS, addressed to the undersigned, will be received through registered post up to noon on THURSDAY, the 9th day of March next, for the erection of a Police Station on Ossington Avenue, on the lot adjoining the Fire Hall recently erected on that

Specification may be seen and all further information Specification may be seen and all further information obtained upon application at the office of A. R. Denison, Esq., Architect, North of Scotland Chambers, No. 50, Seq., Architect, North of Scotland Chambers, No. 50 King Street West. Tenders must be accompanied by a cash deposit, or a marked cheque, payable to the order of the City Treasurer, for two and a half per cent. on all amounts ourer \$1,000, and for five per cent. on all amounts under \$1,000. Should any of the parties whose tenders are accepted fail to give satisfactory security for the due performance of the work, their deposits will be forfeited. The deposits of unsuccessful tenderers will be returned. The names of two responsible sureties must accompany each and every tender. The lowest or any tender not necessarily accepted.

FRANK MOSES,

FRANK MOSES, Chairman C City Clerk's Office, Toronto, Feb. 15, 1890.



## TO BUILDERS AND CONTRACTORS.

TENDERS addressed to the undersigned will be received through registered post up to noon on THURSDAY. THE 97H DAY OF MARCH NEXT, for the completion of the tower of the Cowan Avenue Fire Hall and certain other works in connection therewith, including slating, heating and concrete flooring. Specifications may be seen and all further information obtained upon application at the office of A. R. Denison, Esq., Architect, North of Scotland Chambers, 20 King Street West.

Tenders must be accompanied by a cash deposit or a marked cheque, payable to the order of the City Treasurer, tor two and a half per cent. on all amounts over \$1,000. Should any of the parties whose tenders are accepted fail to give satisfactory security for the due performance of the work, their deposits will be forfeited. The deposits of unsuccessful tenderers will be returned. The names of two responsible sureties must accompany each and every tender.

The lowest or any tender not necessarily accepted.

FRANK MOSES.

FRANK MOSES, Chairman Committee on Property.

City Clerk's Office, Toronto, Feb. 15, 1890.

# Prices of Building Materials.

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Scantling and joist, up to 16 ft	13 00	47 00 13 00 14 00 15 00 16 00 18 00 20 00 22 00 24 00 25 00 25 00 25 00 33 50 30 00 32 00
Scantling and joist, up to 16 ft	12 00	47 00 13 00 14 00 15 00 16 00 18 00 20 00 22 00 24 00 25 00 25 00 25 00 33 50 30 00 32 00
Scantling and joist, up to 16 ft	12 00	17 00 13 00 14 00 15 00 16 00 18 00 20 00 22 00 24 00 26 00 26 00 30 00
Scantling and joist, up to 16 ft	12 00	47 00 13 00 14 00 15 00 15 00 18 00 20 00 22 00 26 00 26 00 23 50 30 00 31 00 25 00 25 00
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	47 00 13 00 14 00 15 00 16 00 20 00 22 00 24 00 25 00 26 00 31 00 32 00 30 30 00 30 00 30 30 00 30 00 30 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30
Scantling and joist, up to 16 ft	12 00	47 00 13 00 14 00 15 00 16 00 22 00 24 00 25 00 26 00 27 00
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	47 00 13 00 14 00 15 00 16 00 20 00 22 00 24 00 25 00 26 00 31 00 32 00 30 30 00 30 00 30 30 00 30 00 30 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	47 00 13 00 14 00 15 00 16 00 18 00 20 00 22 00 23 00 26 00 23 50 20 00 23 50 20 00 22 00 23 00 24 00 25 00 26 00 27 00 28 00 29 00 20
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	-7 00 13 00 14 00 15 00 16 00 20 00 22 00 24 00 25 00 26 00 33 00 33 00 33 00 27 00 27 00 27 00 28 00 29 00 29 00 20 00 20 00 21 00 21 00 22 00 25 00 26 00 27 00 27 00 28 00 29 00 20 00
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	-7 00 13 00 14 00 15 00 18 00 20 00 21 00 22 00 23 50 20 00 23 50 20 00 23 50 20 00 24 00 25 00 26 00 27 00 27 00 28 00 29 00 20
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	-7 00 13 00 14 00 15 00 16 00 20 00 22 00 24 00 25 00 26 00 33 00 33 00 33 00 27 00 27 00 27 00 28 00 29 00 29 00 20 00 20 00 21 00 21 00 22 00 25 00 26 00 27 00 27 00 28 00 29 00 20 00
Scantling and joist, up to 16 ft	12 00 13 00 25 00 18 00	-7 00 13 00 14 00 15 00 18 00 20 00 21 00 22 00 23 50 20 00 23 50 20 00 23 50 20 00 24 00 25 00 26 00 27 00 27 00 28 00 29 00 20
Scantling and joist, up to 16 ft	13 00 13 00 25 00 18 00 16 00	-7 00 13 00 14 00 15 00 18 00 20 00 22 00 24 00 25 00 23 50 30 00 33 00 35 00 27 00 29 00 20 00 21 00 22 00 24 00 25 00 26 00 27 00 27 00 28 00 29 00 20 00 21 00 21 00 22 00 23 50 24 00 25 00 27 00 28 00 29 00 20 00 21 00 21 00 22 00 23 50 20 00 24 00 25 00 27 00 27 00 28 00 29 00 20 00 20 00 21 00 22 00 23 50 20 00 21 00 22 00 23 50 24 00 25 00 27 00 27 00 28 00 29 00 20 00 20 00 21 00 22 00 23 00 24 00 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00	17 00 17 00 14 00 15 00 16 00 20 00 22 00 25 00 26 00 27 00
Scantling and joist, up to 16 ft	25 00 13 00	-7 00 13 00 14 00 15 00 18 00 20 00 22 00 24 00 25 00 23 50 30 00 33 00 35 00 27 00 29 00 20 00 21 00 22 00 24 00 25 00 26 00 27 00 27 00 28 00 29 00 20 00 21 00 21 00 22 00 23 50 24 00 25 00 27 00 28 00 29 00 20 00 21 00 21 00 22 00 23 50 20 00 24 00 25 00 27 00 27 00 28 00 29 00 20 00 20 00 21 00 22 00 23 50 20 00 21 00 22 00 23 50 24 00 25 00 27 00 27 00 28 00 29 00 20 00 20 00 21 00 22 00 23 00 24 00 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00 25 00 16 00	-7 90 73 00 14 00 15 00 18 00 20 00 22 00 24 00 25 00 26 00 27 00 27 00 28 00 29 00 20 00 21 00 22 00 23 00 24 00 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00 25 00 16 00	17 00 114 00 115 00 115 00 125
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 25 00 25 00	-7 90 13 00 14 00 15 00 16 00 18 00 22 00 25 00 26 00 27 00 2
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 25 00 25 00	-7 90 13 00 14 00 15 00 16 00 18 00 22 00 25 00 26 00 27 00 2
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 25 00 18 00 18 00	-7 90 13 00 14 00 15 00 16 00 18 00 22 00 23 00 24 00 25 00 23 30 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 18 00 18 00 18 00	-7 90 13 00 14 00 15 00 16 00 18 00 22 00 23 00 24 00 25 00 23 30 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 25 00 18 00 18 00	-7 90 13 00 14 00 15 00 16 00 18 00 22 00 23 00 24 00 25 00 23 30 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 18 00 18 00 18 00	-7 90 13 00 14 00 15 00 16 00 18 00 22 00 23 00 24 00 25 00 23 30 25 00 27
Scantling and joist, up to 16 ft	25 00 13 00 25 00 16 00 17 00 10 00	-7 90 13 00 14 00 16 00 16 00 18 00 22 00 23 50 23 50 23 50 23 50 23 50 24 00 25 00 27 00
Scantling and joist, up to 16 ft	25 00 13 00 25 00 18 00 16 00 18 00 18 00 18 00 18 00 18 00 25 00 18 00 25 00	-2 90 13 00 14 00 14 00 15 00 16 00 22 00 22 00 23 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00
Scantling and joist, up to 16 ft	25 00 13 00 25 00 16 00 18 00 12 00 22 00 22 00 23 00	-2 90 13 00 14 00 14 00 15 00 15 00 16 00 17 00 17 00 18 00 17 00 17 00 18 00
Scantling and joist, up to 16 ft.  1 13 ft.  2 2 ft.  2 4 ft.  2 4 ft.  3 6 ft.  4 0 to 44 ft.  Cutting up planks, 1½ and thicker, dry board, Picks, American inspection. Three uppers, American inspection. Cedar for block paving, per cord Cedar for Kerbing, 4 x 14, per M  1½ inch flooring, dressed. F. M.  1½ inch flooring rough, B. M.  24 dressed. F. M.  35 undressed.  36 dressed.  37 dressed.  38 dressed.  Clapboarding, dressed.  Sawn lath.	25 00 13 00 25 00 16 00 18 00 12 00 22 00 22 00 23 00	-2 90 13 00 14 00 14 00 15 00 15 00 16 00 17 00 17 00 18 00 17 00 17 00 18 00
Scantling and joist, up to 16 ft.  19 ft.  20 ft.  22 ft.  24 ft.  25 ft.  26 ft.  36 ft.  37 ft.  38 ft.  39 ft.  30 ft.  40 to 44 ft.  Cutting up planks, 1½ and thicker, dry  board,  Picks, American inspection.  Three uppers, American inspection.  Cedar for block paving, per cord.  Cedar for Kerbing, 4×14, per M  1½ inch flooring dessed. F. M.  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring dessed. F. M.  25 undressed.  36 ft.  38 ft.  40 to 44 ft.  40 to 44 ft.  40 to 47 ft.  40 t	25 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00	-7 90 114 00 00 114 00 00 115 115 115 115 115 115 115 115 1
Scantling and joist, up to 16 ft.  19 ft.  20 ft.  22 ft.  24 ft.  25 ft.  26 ft.  36 ft.  37 ft.  38 ft.  39 ft.  30 ft.  40 to 44 ft.  Cutting up planks, 1½ and thicker, dry  board,  Picks, American inspection.  Three uppers, American inspection.  Cedar for block paving, per cord.  Cedar for Kerbing, 4×14, per M  1½ inch flooring dessed. F. M.  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring dessed. F. M.  25 undressed.  36 ft.  38 ft.  40 to 44 ft.  40 to 44 ft.  40 to 47 ft.  40 t	25 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00	-7 90 114 00 00 114 00 00 115 115 115 115 115 115 115 115 1
Scantling and joist, up to 16 ft.  19 ft.  20 ft.  22 ft.  24 ft.  25 ft.  26 ft.  36 ft.  37 ft.  38 ft.  39 ft.  30 ft.  40 to 44 ft.  Cutting up planks, 1½ and thicker, dry  board,  Picks, American inspection.  Three uppers, American inspection.  Cedar for block paving, per cord.  Cedar for Kerbing, 4×14, per M  1½ inch flooring dessed. F. M.  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring dessed. F. M.  25 undressed.  36 ft.  38 ft.  40 to 44 ft.  40 to 44 ft.  40 to 47 ft.  40 t	25 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00 18 00	-7 90 114 00 00 114 00 00 115 115 115 115 115 115 115 115 1
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Scantling and joist, up to 16 ft.  19 ft.  20 ft.  22 ft.  24 ft.  25 ft.  26 ft.  36 ft.  37 ft.  38 ft.  39 ft.  30 ft.  40 to 44 ft.  Cutting up planks, 1½ and thicker, dry  board,  Picks, American inspection.  Three uppers, American inspection.  Cedar for block paving, per cord.  Cedar for Kerbing, 4×14, per M  1½ inch flooring dessed. F. M.  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring dessed. F. M.  25 undressed.  36 ft.  38 ft.  40 to 44 ft.  40 to 44 ft.  40 to 47 ft.  40 t	25 00 18 00 12 00	-7 90 114 00 00 115 00 00 115 00 00 00 00 00 115 00 00 115 00 00 115 00 00 00 00 00 00 00 00 00 115 00 00 00 00 00 00 00 00 00 00 00 00 00
Scantling and joist, up to 16 ft.  19 ft.  20 ft.  22 ft.  24 ft.  25 ft.  26 ft.  36 ft.  37 ft.  38 ft.  39 ft.  30 ft.  40 to 44 ft.  Cutting up planks, 1½ and thicker, dry  board,  Picks, American inspection.  Three uppers, American inspection.  Cedar for block paving, per cord.  Cedar for Kerbing, 4×14, per M  1½ inch flooring dessed. F. M.  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring rough, B. M  1½ inch flooring dessed. F. M.  25 undressed.  36 ft.  38 ft.  40 to 44 ft.  40 to 44 ft.  40 to 47 ft.  40 t	25 00 00 28 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 12 00 00 00 12 00 00	-7 90 71 14 00 15 15 15 15 15 15 15 15 15 15 15 15 15
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ERICK—₩ M Common Walling \$ 7 50	Yellow Ochre, French . 1 28	1 75 °	GRAKOLITHIC. Forsyth, Robert. Whiting. T.	
Common Walling . \$ 7 50 Good Facing	Whiting, London, washed 0 50 Paris, 1 13	0 65 1 25	"Whitard, To	, XII
Pressed Brick :	, Olla:	0 (e	HEATING.	
Plain brick, f. o. b. at Milton, per M \$18 00 " and quality, per M 13 00 Ornamental brick, at Milton, per 100 \$3 to 10 00	Linseed, raw	0 48	Clendinneng & Son, W	IV.
	" machinery	1 05	Williams, J. M & Co	xii
Stone: Common Rubble, Per Toise, delivered 14 00	" jts., " 2 50 12 pts., "	2 65 3 10	Waterous Engine Works	ii
Large flat " 18 00 Foundation Blocks, " Cubic Foot. 35	Spirits turpentine 0 67	0 70	Thus, Robertson & Co	ı٧
Blate: Roofing (B square).	INDEX TO ADVEDTIGENERS	~	LFGAL.	•
" red 16 00 " purple 9 00	INDEX TO ADVERTISEMENT		Denton & Dods	viii
uninding green 9 00 black state 7 50	IN THE CANADIAN ARCHITECT AND BUIL	DER.	MANTELS AND OVERMANTELS.	111
Teera Cotta Tile, per 5q	ARCHITECTS.	Page	Wright & Co	ii
Sand:	Directory	•	METAL SHINGLES AND ROOFING,	
Per Load of 1½ Cubic Yards 1 25 PAINTS. (In oil, 4 lb.)	ARCHITECTURAL IRON WORK.		Baird Bros	1
	Barnum Wire & Iron Works	I IV	Metallic Roofing Co	11
White lead, Can. 6 25 6 50 17 50 Red lead, Eng. 53/4 61/2	ARCHITECTURAL SCULPTORS.		MINERAL WOOL Gasi & Atcheson	ii
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1 Indian, Eng. 10 12 Yellow ochre. 5 17 Yellow chrome. 15 25	Gullet, F. B		OFFICE AND SCHOOL FURNITURE.	
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Paris 25 40 Black, lamp 15 25	ARCHITECTURAL STONE WORK.	111	ORNAMENTAL PLASTERERS. Baker, J. D	x
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Putty	Wright & Co	11	Wright, Jas	×
Paris white Eng., dry 90 1 25 Litharge, Am., 61/2 8	BRASS WORKS. Mitchell & Co., Robt	ıv	PAINTERS.	
Sienna, barnt	BRICK MACHINERY.		W. J. Taylor	24
CEMENT, LIME, etc.	Gurney Co., E. & C	NII.	PAINTS, VARNISHES, &C. Andrew Muirhead	٠.
Lime, Per Barrel of 2 bushels, Grey 40	Laidlaw Mfg. Co	in	Pianos.	••
White 55 Plaster, Calcined, New Brunswick. 200 " Nova Scotia 200 Hair, Plasterers', per bag 100 Cement, Portland, per bbl 325 " Thorold, " 150 " Queenston, " 150 " Napanee, " 150	BRICKS (PRESSED).  Hynes Terra Cotta & Brick Co	vi	Mason & Risch	viii
Hair, Plasterers', per bag	Savage, R. D	13 111	PLATE GLASS.	***
Cement, Portland, per bbl	BUILDERS' Supplies.	***	Lyon, N. T. McCausland & Son.	III ix
	Hall & Son	1	Toronto Plate Glass Importing Co	ł
HARDWARE.	MeNaily & Co		Plumbers. Bennett & Wright	24
American Pattern, 13/2 inch, per keg 4 35 "13/2 to 13/2 inch, per keg 3 60 Canadian Pattern, 13/2 inch, per keg 3 85	Vokes, M. & J. L	24	PLUMBING SUPPLIES,	-7
Canadian Pattern, 13/4 inch, per keg 3 85	BUILDING STONE,		Higman, O	
" " 1½ to 1½ inch, per keg 3 25 " 2 to 2½ inch, " 3 35 " 2½ to 2½ inch, " 3 10	Lyall, Peter	11 M	Keith & Fitzsimons Malcolm, W. B	viii i
3 inch and larger 2 85 Steel nails 10c. per keg extra.	Rathbun Co Savage, R. D	vı ii	Mitchell & Co., Robert	IV
Finishing nails, 1 inch, per keg 5 90	Vokes Malcolm Stone Co		Roofers and Roofing Materials.	• •
Finishing nails, 1 inch, per keg	BUILDERS' HARDWARE.		Can. Galvanizing & Steel Roofing Co	1
" and larger 4 20	Aikenhead & Crombie	1V	Duthie & Sons, G. Forbes, Duncan.	
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Ash, 1 to 4 in, M \$13 00@18 00	CARPENTERS AND BUILDERS.		Rennie & Son, R	
Birch, 1 to 4 inch, M	Davidson & Kelly		Stewart, W. I	
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Cement, etc.	CREOSOTE STAINS.	•	SHINGLE STAINS, Cabot, Samuel	x
Portland Cement, per barrel \$ 2 70@ 5 00 Roman 2 70 3 00	Cabot, Samuel	λ	SLIDING BLINDS.	^
Fire Bricks, per M 20 00 30 00 Cut Natts:	ELECTRIC BELLS.		Clatworthy, Geo	1%
Hot-cut Am. or Can, pattern, 3 inch	Galvanic Battery Works	v !	STABLE FITTINGS. Clendinneng & Son, W	ıν
and above	ELEVATORS. Craig Elevator Works	24	Tisdale Co., B. G	x
and above 2 90 3 15	Miller Bros. & Tonis	Ni.	STAINED AND DECORATIVE GLASS.  Bell Art Stained Glass Works	1X
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White Lead, pure, 25 to 100 lb. kegs. 6 50 7 00	Baird Bros	ini	WALL PAPER AND CEILING DECORATIONS. Staunton & Co., M	1
" No. 2 4 50 5 00	Hedges & Lankin Ormsby, A. B	vi	WALL PLASTER.	, ·
" No. 3	Tucker & Dillon	iii	Adamant Mig. Co	